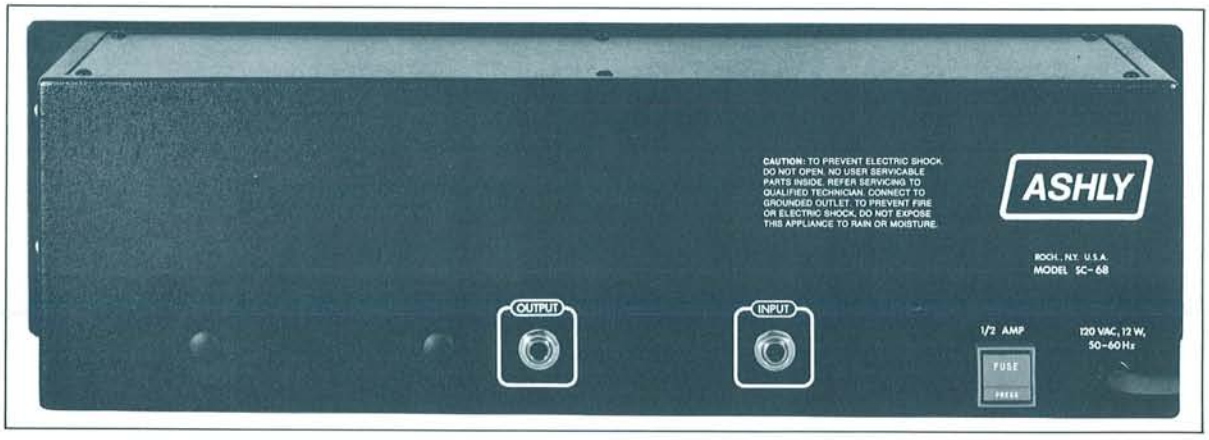
ASHLY AUDIO, INC.

SC68 PARAMETRIC NOTCH FILTER

The SC-68 Parametric Notch Filter is a cut-only equalizer which is used to insert relatively sharp dips in the frequency spectrum. As such, it is useful for removing spot frequencies which cause problems such as feedback, cabinet resonances, hum or TV sync signals, and single "hot" notes on musical instruments. A unique setup system makes tuning for maximum gain-before-feedback positive and fast.

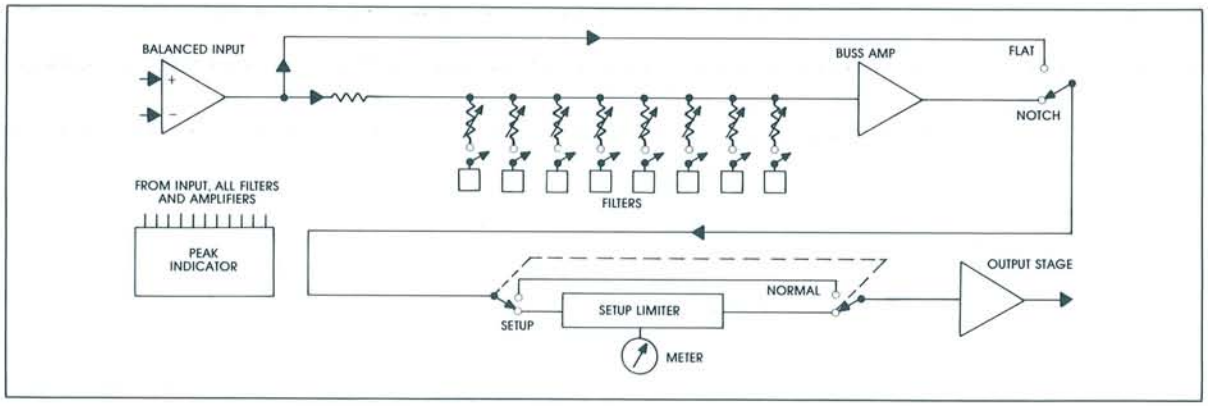
FEATURES:

- Input and output can be used as balanced or unbalanced
- Peak overload light
- Rugged 16 gauge steel chassis
- In/Out Eq Switching
- Setup System with built-in Limiter and gain meter
- Full 20 dB of headroom


CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT OPEN. NO USER SERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED TECHNICIAN. CONNECT TO GROUNDED OUTLET. TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
ASHLY
ROCH., N.Y. U.S.A.
MODEL SC-68
OUTPUT
INPUT
1/2 AMP
FUSE
120 VAC, 12 W, 50-60 Hz

The SC-68 consists of 8 individual filter circuits which are applied to a common buss. Each filter acts as a frequency dependent resistance with the resistance dropping to zero at the center frequency. This enables each band to be operated as a nearly infinite cut (30 dB guaranteed). Each band can be individually switched on and off the buss to test its effect and the entire unit can be bypassed to compare the final setup to a flat setting.

The SC-68 includes a setup system to aid in reducing feedback. In the setup mode, a limiter increases system gain until feedback occurs and holds the feedback at a controlled low level. The setup level adjustment is used to give a "0" reading on a dB-linear gain meter. As notches are applied to primary feedback frequencies, the setup limiter will increase system gain causing controlled feedback to new frequencies. These can be notched out in the same manner. As this process continues, the gain meter indicates directly the improvement in gain-before-feedback. This indication can be used to show the effect of other factors such as mic and speaker placement or movement of objects on the stage. As a result, tuning for minimum feedback becomes a precise process without the speaker damage and ear abuse which often occurs with conventional means.



SPECIFICATIONS:

AMPLITUDE	0 to -30dB
FREQUENCY	(low) 16Hz-800Hz, (3/low-mid) 48Hz-2.4kHz, (3/hi-mid) 160Hz-8kHz, (high) 480Hz-24kHz
BANDWIDTH	.3 octave - .03 octave
INPUT IMPEDANCE	10k Ω active balanced bridging
MAX. IN-OUT LEVEL	+20dB (+5dB at max. cut, full sharp)
FREQUENCY RESPONSE	±.5dB 20Hz-20kHz
OUTPUT IMPEDANCE	50 Ω , term with 600 Ω or more
HUM AND NOISE	-87dBV (eq in), -95dBV (eq out)
DISTORTION	< .05% THD, +10dBV, 20Hz-20kHz
POWER	120 VAC, 50-60Hz, 5W.
SHIPPING WEIGHT	12 lbs.